Library Online “elibrary.edyu”

**Software Requirements Specification**

Version 1.0



**Group Id: F210273AE8**

**Supervisor Name: Abdul Majid Khokhar (abdulmajid@vu.edu.pk)**

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date (dd/mm/yyyy)** | **Version** | **Description** | **Author** |
| Current date | 1.0 | E-Library is a digital library website, where user can find books according to their needs by using filters and easily read books. E-Library maintain the information about the books, their authors, members of library which is very complex to maintain the information manually. E-library helps in many instance of maintenance. It will reduce the manual workload. | BC180408671,  BC180203457 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Table of Contents**

1. [Scope (of the project)](#scope)
2. [Functional Requirements Non Functional requirements](#FRNFR)
3. [Use Case Diagram](#UCD)
4. [Usage Scenarios](#UCS)
5. [Adopted Methodology](#Adopted)
6. [Work Plan (Use MS Project to create Schedule/Work Plan)](#Gantt)

**SRS Document**

**Scope of Project:**

During these days visiting a library is such a hardy task and people don’t want to go there and spend their specious time. They just want to stay in their comfort zone and there they want to access of everything. To mitigate the issues of conventional and manual method of reservation and distribution of books to readers from library, E-Library Management System has been created. E-Library is completely new library management system.

E-Library is web-based online library website which is maintain by librarian/Admin. He/she will upload books and maintain the information about author, category, and date of publish. Student/User will easily search books and read books online or even download books. They will search books according to their desires by using filters. With this computerized system there will be no loss of book record or member record which generally happens when a non-computerized system is used. Student will reads books where they left. This E-Library will help them in their study and also save their valuable time.

**Functional and non Functional Requirements:**

**Functional Requirement:**

**Visitor:**

Requirement:

* Can preview books and see detail about name, author, date of publish, category, edition, publisher of book.
* Can’t read book without registration.
* Register himself/herself by filling registration form.
* User search feature to find books.
* Can view categories of books.
* Can login after registration.
* Login using email and password after registration

**Reader:**

Requirement:

* Can login by providing email and password.
* Can add/remove books to/from personal bookshelf.
* Can searching different books using different filter.
* Can view book shelf.
* Can reading books from where they left.
* Can logout.

**Administration:**

Requirement:

* Can access admin portal by login authentication.
* Add/Remove/Edit books.
* Add/Delete/Update categories.
* View available book list.
* View readers of website.
* Manage readers.

**System:**

Requirements:

* Nobody can read books without login.
* Nobody can login before registration.
* No one can view can access reader portal without login.
* Searching feature based on different filters.
* Categories are available to everyone.
* At least contain 3 books in each category.
* Proper validation of different forms.
* No one can access admin portal without login authentication.
* Only register user can read and download books.

**Non-Functional Requirement:**

* **Efficiency**

User easily access searching and load books at fast speed. Books are available on index page.

* **Reliability**

The system should accurately performs member registration, member validation, report generation, and search.

* **Usability**

The system is designed for a user friendly environment so that student and staff of library can perform the various tasks easily and in an effective way.

* **Security:**

System must be secure, no one can access authenticate pages without proper login.

* **Lifecycle**:

System must be design in such way that enhancement in future would be implemented easily.

Use Case Diagram(s):

<Provide here the use case diagram of your system>

Usage Scenarios:

<Provide here the usage scenarios of all use cases in table format explaining Use Case title, Use Case Id, Actions, Description, Alternative Paths, Pre and Post Conditions, Author, Exceptions. You are supposed to provide a usage scenario for each of use case shown in use case diagram>

Adopted Methodology

<Write here detail about the adopted methodology for your project. You must choose VU Process Model which is a combination of waterfall and spiral models. More or combining two or more methodologies is explained in SE2 (CS605) handouts. >

Work Plan (Use MS Project to create Schedule/Work Plan)

<Provide Gantt chart of your final project>